

**Pyrotechnic gas generator with composite loading**

Patent Number: ☐ EP0849130, B1  
Publication date: 1998-06-24  
Inventor(s): DUVACQUIER DANIEL (FR); PEROTTO CHRISTIAN (FR); MARSAUD BENOIT (FR)  
Applicant(s): LIVBAG SNC (FR); POUDRES & EXPLOSIFS STE NALE (FR)  
Requested Patent: ☐ JP10202086  
Application Number: EP19970403035 19971215  
Priority Number(s): FR19960015575 19961218  
IPC Classification: B60R21/26  
EC Classification: B60R21/26D2  
Equivalents: DE69707095D, DE69707095T, ☐ FR2757266

---

**Abstract**

---

Pyrotechnic gas generator (1) intended notably for car safety comprises hollow body (2) equipped with opening (14a,b) to allow gas to escape, an ignition device (6,7,8) and pyrotechnic filler (12) consisting principally of an organic binder and combustible charge, the speed of combustion of which reaches a minimum value when the pressure to which it is subjected exceeds a value  $P_o$ . The opening is closed by a device comprising component (15) with cylindrical hole (16) closed by casing (17) which ruptures when internal pressure in generator,  $P_c$  exceeds  $P_o$ . The diameter of the hole being such that the instantaneous drop in pressure following the rupture of the casing is  $< P_c - P_o$ ; and component consists of material which is eroded by the flow of gas during combustion of filler.

Data supplied from the esp@cenet database - I2